
SECTION 1

PRODUCT IDENTIFIER ZY2802 KLENKS AQUATECH ALMOND TWO-PART EPOXY KI
DATE OF PREPARATION DECEMBER 30, 1999
PRODUCT USE PROTECTIVE COATING

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MSDS PREPARED BY: PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT
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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

	INGREDIENT	WT. %:
CHEMICAL NAME	POLYETHYLENE POLYAMINE ADDUCT	5-10
COMMON NAME :	ALIPHATIC AMINE	
CAS NUMBER :	CONFIDENTIAL	
CHEMICAL NAME	TITANIUM OXIDE	40-50
COMMON NAME :	TITANIUM DIOXIDE	
CAS NUMBER :	13463-67-7	
CHEMICAL NAME	ALUMINUM HYDROXIDE	1-5
COMMON NAME :	ALUMINUM HYDROXIDE	
CAS NUMBER :	21645-51-2	
CHEMICAL NAME	ETHANOL, 2-PROPOXY-	5-10
COMMON NAME :	ETHYLENE GLYCOL MONOPROPYL ETHER	
CAS NUMBER :	2807-30-9	
CHEMICAL NAME	C.I. PIGMENT YELLOW 42	1-5
COMMON NAME :	YELLOW IRON OXIDE	
CAS NUMBER :	51274-00-1	
CHEMICAL NAME	SILICA	5-10
COMMON NAME :	AMORPHOUS SILICA	
CAS NUMBER :	7631-86-9	
CHEMICAL NAME	WATER	20-30
COMMON NAME :	WATER	
CAS NUMBER :	7732-18-5	

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE
 INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

SECTION 3: HAZARDS IDENTIFICATION

INHALATION	PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, DIZZINESS AND/OR LIGHTEADEDNESS, HEADACHE, NAUSEA, COUGHING, CENTRAL NERVOUS SYSTEM DEPRESSION, BLOOD ABNORMALITIES, KIDNEY DAMAGE, PNEUMONIOSIS. POSSIBLE SENSITIZATION TO RESPIRATORY TRACT.
SKIN CONTACT	IRRITATION OF SKIN. POSSIBLE SENSITIZATION TO SKIN. SKIN CONTACT MAY RESULT IN DERMAL ABSORPTION OF COMPONENT(S) OF THIS PRODUCT WHICH MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, BLOOD ABNORMALITIES, LIVER DAMAGE, KIDNEY DAMAGE.
EYE CONTACT	IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE REDNESS OF EYES, SEVERE EYE IRRITATION.
INGESTION	INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, GASTRO-INTESTINAL DISTURBANCES, CENTRAL NERVOUS SYSTEM DEPRESSION, BLOOD ABNORMALITIES, KIDNEY DAMAGE.
MEDICAL CONDITIONS	AGGRAVATED BY EXPOSURE EYE, SKIN, RESPIRATORY DISORDERS KIDNEY DISORDERS

SECTION 4: FIRST-AID MEASURES

INHALATION	REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY. REMOVE TO FRESH AIR IF INHALATION CAUSES EYE WATERING, HEADACHES, DIZZINESS, OR OTHER DISCOMFORT.
SKIN CONTACT	FLUSH FROM SKIN WITH WATER. THEN WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE. DISPOSE OF CONTAMINATED LEATHER ITEMS, SUCH AS SHOES AND BELTS.
EYE CONTACT	FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.
INGESTION	IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT (BETA)	130 F./ 54 C.	LOWER EXPLOSIVE LIMIT	1.2	(X)
		UPPER EXPLOSIVE LIMIT	15.8	(X)
FIRE EXTINGUISHING MEDIA	DRY CHEMICAL OR FOAM WATER FOG. CARBON DIOXIDE.			

SECTION 5: FIRE-FIGHTING MEASURES

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE.
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK.
VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES.
CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.
MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

FIRE FIGHTING PROCEDURES

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS.
FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.
SELF-CONTAINED BREATHING APPARATUS RECOMMENDED.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE, ACRID FUMES, OXYGEN, PEROXIDES, ALDEHYDES, ACIDS, UNIDENTIFIED ORGANIC COMPOUNDS.

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.
ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. USE NON-SPARKING TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL.
PLACE COLLECTED MATERIAL IN PROPER CONTAINER.
COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.
LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.
SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE

STORE BELOW 100F (38C). KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP FROM FREEZING.
KEEP AWAY FROM DIRECT SUNLIGHT, HEAT AND ALL SOURCES OF IGNITION.

OTHER PRECAUTIONS

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING.
KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES.
GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME : TITANIUM DIOXIDE
 CAS NUMBER: 13463-67-7
 ACGIH(TWA): 10 MG/M3 OSHA(TWA): 10 MG/M3

COMMON NAME : ALUMINUM HYDROXIDE
 CAS NUMBER: 21645-51-2
 ACGIH(TWA): 10 MG/M3 OSHA(TWA): 5 MG/M3

COMMON NAME : YELLOW IRON OXIDE
 CAS NUMBER: 51274-00-1
 ACGIH(TWA): 5 MG/M3 OSHA(TWA): 10 MG/M3

COMMON NAME : AMORPHOUS SILICA
 CAS NUMBER: 7631-86-9
 ACGIH(TWA): 10 MG/M3 OSHA(TWA): 6 MG/M3

RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

VENTILATION

PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS.
 USE EXPLOSION-PROOF EQUIPMENT.

PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES.
 IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, BOOTS.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.705
BOILING RANGE:	212-212F/ -100C	WEIGHT PER GALLON:	14.21/ 17.07IMP
EVOLATILE BY VOLUME:	59.90		
PHYSICAL STATE:	LIQUID	APPEARANCE	TAN
SOLUBILITY IN WATER:	NOT AVAILABLE	PH:	NOT AVAILABLE

SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS

STABLE
 SEE SECTION 5 FIRE FIGHTING MEASURES

MATERIALS TO AVOID

OXIDIZERS, AMINES, HYPOCHLORITES, MINERAL ACIDS.
 CHLORINATED RUBBER
 HYDRAZINE
 PERFORMIC ACID
 BROMINE PENTAFLUORIDE

SECTION 10: STABILITY AND REACTIVITY

CONDITIONS TO AVOID

ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT,
FREEZING, SPARKS, OPEN FLAME, IGNITION SOURCES.

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

COMMON NAME :	ALIPHATIC AMINE			
CAS NUMBER:	CONFIDENTIAL			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME :	TITANIUM DIOXIDE			
CAS NUMBER:	13463-67-7			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	24.00 GM/KG	ORL RAT		
LC50:	6820.00 MG/M3/4HR	IHL RAT		
COMMON NAME :	ALUMINUM HYDROXIDE			
CAS NUMBER:	21645-51-2			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME :	ETHYLENE GLYCOL MONOPROPYL ETHER			
CAS NUMBER:	2807-30-9			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	3089.00 MG/KG	ORL RAT		
LD50:	960.00 MG/KG	SKN RBT		
LC50:	1530.00 PPM	IHL MOU		
COMMON NAME :	YELLOW IRON OXIDE			
CAS NUMBER:	51274-00-1			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	10.00 GM/KG	ORL RAT		
COMMON NAME :	AMORPHOUS SILICA			
CAS NUMBER:	7631-86-9			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO

SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT IS MODERATELY TOXIC BY INGESTION.
CONTAINS A CHEMICAL THAT IS TOXIC BY INHALATION.
CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.
NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED
OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN
AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY
DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS
MAY BE HARMFUL OR FATAL.
OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO BLOOD.

CARCINOGENICITY NO CARCINOGENIC EFFECTS ARE ANTICIPATED

REPRODUCTIVE EFFECTS NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

SECTION 11: TOXICOLOGICAL INFORMATION

MUTAGENICITY NO MUTAGENIC EFFECTS ARE ANTICIPATED
TERATOGENICITY NO TERATOGENIC EFFECTS ARE ANTICIPATED

SECTION 12: ECOLOGICAL INFORMATION

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
AVOID DISCHARGE TO NATURAL WATERS.

SECTION 14: TRANSPORT INFORMATION

DOT PAINT
IMDG NOT AVAILABLE
IATA NOT AVAILABLE
TDG NOT AVAILABLE

SECTION 15: REGULATORY INFORMATION

SARA SARA CERCLA HAZ AIR MARINE
302 313 302.4 POLLUTANT POLYNT

CAS NUMBER: 2807-30-9 NO YES NO YES NO
COMMON NAME: ETHYLENE GLYCOL MONOPROPYL ETHER

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY.
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CFR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CFR.

SECTION 16: OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF

SECTION 16: OTHER INFORMATION

YOUR EMPLOYEES AND USERS OF THIS MATERIAL.
COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD
29CFR1910.1200.